

sentinel-2

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Reference Period: 4 -10 Mar 2017

Mission Status

- Access to the routine production of Sentinel-2A ortho-rectified Level-1C products is available at <https://scihub.copernicus.eu>.
- To date, a total of 71,221* users have self-registered on the Sentinels Scientific Data Hub. About 656 thousand Level-1C products are available for download, cumulating a total volume of 667 TB. Overall, a total volume of 3.68 Petabytes has been downloaded by the user communities from the Open Access Hub and the Copernicus Hub.
- The Sentinel-2A acquisition scenario is published at <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The data quality report is published at <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/data-quality-report>
- The acquisition scenario has been executed with an average of 13.9 minutes of MSI sensing time per orbit, Sentinel-2A is acquiring Europe, Africa and Greenland at 10 days revisit. Since 22 February the 20-day revisit pattern has been introduced for the rest of the world. It will remain in place until either the 4th X-band station or EDRS become available operationally, assumed towards late Q2/early Q3-2017.
- The Flight Operations Segment (FOS) ensuring the monitoring, control and commanding of the satellite is operating nominally.
- The status of the satellite is nominal.
- The OCP Experimentation Phase is on-going with Alphasat.
- X-band data acquisitions are routinely performed by the PDGS over Matera, Maspalomas and Svalbard core stations. The acquired data is systematically processed to Level-0 and Level-1 products, circulated, and archived.
- Operations are nominally performed at the Processing and Archiving Centres and other PDGS operational services (i.e. Mission Performance Centre, Precise Orbit Determination, Wide Area Network).
- The reprocessing in baseline 02.04 of the S2A commissioning phase acquisitions is progressing nominally, the reprocessed products up to the 25th November 2015 are available for download.

Outlook

- Second step of final MMFU software update, assumed in April 2017.
- EDRS-A / S2A OCP Commissioning Phase not before Q2/2017.
- Continued reprocessing campaign, expected finalisation within Q1 2017.
- Launch of Sentinel-2B, 7 March 2017.

* more than double of the average weekly user registrations trend, likely linked to the S2B launch and related outreach.



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Sentinel-2B Launch and Early Orbit Phase (LEOP)

- Sentinel-2B has been launched on 7 March 2017 nominally at 01:49:24 UTC as per expected time (6th March in Kourou).
- The Sentinel 2B satellite was separated at 02:46:51 UTC followed by a successful acquisition of TM at the times of 02:48:13 UTC over Yatharagga station/Australia.
- Array deployment was confirmed at 03:11:32 before loss of signal over the Troll station.
- Telecommand link was established at Alaska ground station where the first commanding activities were executed according to the planned LEOP timeline.
- All commanding activities on the satellite have been performed nominally.
- During three LEOP days, the mission control team worked shifts 24 hours per day, overseeing a critical series of initial actions. This included bringing the satellite into a stable operational mode, started moving it into its final orbit and checking out the health of its systems. LEOP was declared successful on 9 March and the mission entered its nominal Commissioning Phase activities on Friday 10 March.
- The first X-band link was successfully established with Matera station on Friday 10 March morning

Outlook

- Continued in orbit validation (IOV) nominally for ~3 months
- Reaching the reference orbit 180 degrees apart on the same orbit as Sentinel-2A by end March 2017.

